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## NOTICE OF ALLOWANCE AND FEE(S) DUE

26021

7590

07/18/2008

HOGAN & HARTSON L.L.P. 1999 AVENUE OF THE STARS SUITE 1400 LOS ANGELES, CA 90067 EXAMINER

LOCKARD, JON MCCLELLAND

ART UNIT PAPER NUMBER

1647 DATE MAILED: 07/18/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/541,086	03/11/2007	Timothy Kirk Gallaher	89188.0115	5128	

TITLE OF INVENTION: SECRETED PROTEIN FACTOR AND CELL MEMBRANE-BOUND SPLICE VARIANT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	10/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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10/541,086	03/11/2007		Timothy Kirk Gallah				89188.0115	5128	,
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nonprovisional	YES	\$720	\$300	_	\$0		\$1020	10/20/	2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS						
LOCKARD, JON	MCCLELLAND	1647	530-350000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, altern (2) the name of a sregistered attorney 2 registered patent	1. For printing on the patent front page, list 1) the names of up to 3 registered patent attorneys r agents OR, alternatively, 2) the name of a single firm (having as a member a egistered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is isted, no name will be printed.					
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON The field below, no assignee oletion of this form is NO categories (will not be presented to the presented of the presented to the presented of the presented	data will appear on th T a substitute for filing (B) RESIDENCE: (C	ne par gan a	tent. If an assigne ssignment. and STATE OR C	OUNT	TRY)		
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1999 AVENUE OI	F THE STARS		ART UNIT	PAPER NUMBER	
SUITE 1400 LOS ANGELES, O	CA 90067		1647 DATE MAILED: 07/18/200	8	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
		CALLAHED ET AL		
Notice of Allowability	10/541,086 <b>Examiner</b>	GALLAHER ET AL.  Art Unit		
·		10.17		
	JON M. LOCKARD	1647		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. <b>THIS</b>		
1. X This communication is responsive to the Amendment filed	<u>24 April 2008</u> .			
2. X The allowed claim(s) is/are 25, 27, 29, and 41 (renumbered	d as claims 1-4, respectively).			
<ul> <li>3.</li></ul>				
2. Certified copies of the priority documents have	been received in Application No			
3. ☐ Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the		
International Bureau (PCT Rule 17.2(a)).		-		
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.			
INFORMAL PATENT APPLICATION (PTO-152) which give				
5. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") must	st be submitted.			
(a) $\square$ including changes required by the Notice of Draftspers	· ·	-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application		
<ol> <li>Induce of References Cited (PTO-692)</li> <li>Induce of Profit Profi</li></ol>	6. ☐ Interview Summary	• •		
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amendi	te		
Paper No./Mail Date4. ☐ Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance		
of Biological Material	9.			
	/Christine J Saoud/ Primary Examiner, Art Unit	t 1647		

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Art Unit: 1647

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Barry Shuman on 17 June 2008.

- 2. The application has been amended as follows:
- 3. Claims 26, 28, 30-31, 33-40, and 42-44 have been cancelled without prejudice or disclaimer.
- 4. In claim 29, the phrase "suitable for delivery to a subject" has been deleted.
- 5. In claim 41, the phrase "providing a suitable nucleic acid vector for delivery into a cell, wherein the nucleic acid sequence of the vector corresponding to the peptide of claim 27 is contained in the suitable nucleic acid vector, delivering said vector to said cell wherein the vector contained in the cell permits expression of the polypeptide with the cell; and isolating the polypeptide from the cell" has been deleted, and the phrase --(a) culturing an isolated recombinant host cell comprising a vector that comprises a nucleotide sequence encoding the polypeptide of claim 27 under conditions such that the polypeptide of claim 27 is expressed; and (b) recovering said polypeptide-- inserted therefor.

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### **REASONS FOR ALLOWANCE**

6. The following is an examiner's statement of reasons for allowance: Applicant's

arguments as they pertain to the rejection of the claims under 35 U.S.C. § 101 and 112 first

paragraph (based on utility) were found persuasive. Specifically, Applicant's arguments

presented at pg 9 of the response (filed 24 April 2008) point out that the Specification discloses

that the addition of the claimed polypeptide in a colony forming cell (CFC) assay results in the

proliferation of multipotent, primitive hematopoietic progenitor/stem cells in a dose dependent

fashion (See pg 62-63 of the specification, Figure 8).

7. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

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# Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jon M. Lockard**, **Ph.D.** whose telephone number is **(571) 272-2717**. The examiner can normally be reached on Monday through Friday, 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Manjunath N. Rao, Ph.D.**, can be reached on **(571) 272-0939**. The fax number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866-217-9197** (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. M. L./ Jon M. Lockard, Ph.D. Examiner, Art Unit 1647 June 20, 2008 /Christine J Saoud/ Primary Examiner, Art Unit 1647